

About the HP MSR Router Series Command References(V7)

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About the HP MSR Router Series Command References

These command references apply to the following models of the HP MSR routers:

Model	
MSR1000	<ul style="list-style-type: none">• MSR1002-4
MSR2000	<ul style="list-style-type: none">• MSR2003• MSR2004-24• MSR2004-48
MSR3000	<ul style="list-style-type: none">• MSR3012• MSR3024• MSR3044• MSR3064
MSR4000	<ul style="list-style-type: none">• MSR4060• MSR4080

The HP MSR router series command references describe the commands and command syntax options available for the HP MSR Routers.

Command reference	Content
<i>Fundamentals Command Reference</i>	<p>Covers the commands for logging in to and setting up an MSR router. This command reference includes:</p> <ul style="list-style-type: none">• CLI• RBAC• Login Management• FTP and TFTP• File System Management• Configuration file management• Software upgrade• Emergency shell• Automatic Configuration• Device Management• Tcl
<i>Interface Command Reference</i>	<p>Covers the interface configuration commands. This command reference includes:</p> <ul style="list-style-type: none">• Bulk interface• Ethernet interface• WAN interfaces• POS interface• CPOS interface• ATM interface• Loopback, null, and inloopback interface

Command reference	Content
<i>Layer 2 – LAN Switching Command Reference</i>	<p>Covers the commands for configuring Layer 2 technologies and features in a LAN switched network. This command reference includes:</p> <ul style="list-style-type: none"> • MAC Address Table • Ethernet link aggregation • Port Isolation • Spanning Tree • Loop detection • VLAN • QinQ • LLDP
<i>Layer 2 – WAN Access Command Reference</i>	<p>Covers WAN access technologies. This command reference includes:</p> <ul style="list-style-type: none"> • PPP • L2TP • HDLC • ISDN • ATM • Modem Management • 3G and 4G modem management • DDR
<i>Layer 3 – IP Services Command Reference</i>	<p>Covers the commands for configuring and managing IP addressing (including static and dynamic IPv4 and IPv6 address assignment), network performance optimization, ARP, and interoperation between IPv4 and IPv6. This command reference includes:</p> <ul style="list-style-type: none"> • ARP • IP Addressing • DHCP • DNS • NAT • IP Forwarding Basics • Fast Forwarding • Flow classification • Adjacency table • IRDP • IP Performance Optimization • UDP Helper • IPv6 Basics • DHCPv6 • IPv6 Fast Forwarding • Tunneling • GRE • ADVPN
<i>Layer 3 – IP Routing Command Reference</i>	<p>Covers the commands for configuring routes for IPv4 and IPv6 networks of different sizes, route filtering, route control, and policy based routing. This command reference includes:</p> <ul style="list-style-type: none"> • IP Routing Basics • Static Routing

Command reference	Content
	<ul style="list-style-type: none"> • RIP • OSPF • IS-IS • BGP • Policy-Based Routing • IPv6 Static Routing • RIPv6 • OSPFv3 • IPv6 IS-IS • IPv6 Policy-Based Routing • Routing policy • MTR
<i>IP Multicast Command Reference</i>	<p>Covers the commands for Layer 3 IPv4 multicast protocols (IGMP and PIM), and Layer 3 IPv6 multicast protocols (MLD and IPv6 PIM), Layer 2 IPv4 multicast protocols (IGMP snooping). This command reference includes:</p> <ul style="list-style-type: none"> • IGMP Snooping • Multicast Routing and Forwarding • IGMP • PIM • MSDP • Multicast VPN • MLD snooping • IPv6 Multicast Routing and Forwarding • MLD • IPv6 PIM
<i>MPLS Command Reference</i>	<p>Covers the commands for MPLS and MPLS VPN. This command reference includes:</p> <ul style="list-style-type: none"> • Basic MPLS • Static LSP • LDP • MPLS TE • Static CRLSP • RSVP • Tunnel policy • MPLS L3VPN • MPLS L2VPN • MPLS OAM • MPLS protection switching
<i>ACL and QoS Command Reference</i>	<p>Covers the commands for classifying traffic with ACLs, and allocating network resources and managing congestions with QoS technologies to improve network performance and network use efficiency. This command reference includes:</p> <ul style="list-style-type: none"> • ACL • MPLS QoS • QoS • Time range

<i>Security Command Reference</i>	<p>Covers security feature commands. Available security features include identity authentication (AAA), access security (802.1X, MAC authentication, and portal), secure management (SSH). This command reference includes:</p> <ul style="list-style-type: none"> • AAA • 802.1X • MAC Authentication • Porta • Port security • Password control • Public key management • PKI • IPsec(IPsec, IKE) • SSH • SSL • ASPF • APR • Session management • Connection limit • Object group • ARP Attack Protection • IP source guard • ARP attack protection • uRPF • Crypto engine • FIPS • Attack detection and prevention
<i>Voice Command Reference</i>	<p>Covers Voice features commands. This command reference includes:</p> <ul style="list-style-type: none"> • Voice interface • Voice Entity • Dial Program • SIP • Call Services • Fax over IP
<i>High Availability Command Reference</i>	<p>Covers high availability commands for managing failure detection. Failure detection technologies focus on fault detection and isolation. This command reference includes:</p> <ul style="list-style-type: none"> • Interface backup • VRRP • BFD • Track • Process placement
<i>Network Management and Monitoring Command Reference</i>	<p>Covers the commands that help you manage and monitor your network, for example, manage system events, sample packets, assess network performance, and test network connectivity. This command reference includes:</p> <ul style="list-style-type: none"> • System Maintenance and Debugging

	<ul style="list-style-type: none"> • NQA • NTP • PoE • SNMP • RMON • NETCONF • CWMP • EAA • Process monitoring and maintenance • Sampler • Mirroring • NetStream • IPv6 NetStream • sFlow • Information Center
<i>OAA Commands</i>	<p>Covers OAA commands. This command reference includes:</p> <ul style="list-style-type: none"> • OAP module • OAP
<i>Probe Commands</i>	<p>Covers Probe commands. This command reference includes:</p> <ul style="list-style-type: none"> • Router Probe commands